

Notice of Allowability

Application No.

10/756,384

Examiner

Ingrid Wright

Applicant(s)

LEE, KWANG-YOUB

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/22/06.
2. ☒ The allowed claim(s) is/are 1,2,4-8,10-15,18-21 and 23-38.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other 4 Attachments.


LYNN FEILD
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-2,4-8,10-15,18-21 & 23-38 are allowed.
2. The following is an examiner's statement of reasons for allowance: the allowability resides in the overall structure of the device as recited in independent claims 1,13 & 19, and at least in part, because, claim 1 recites: "a rotary motor controlled through the cradle section and connected to the locking member, the rotary motor being rotated when a recognition signal for the locking member rotation information is inputted into the cradle control section, and a light transmission/reception hole located in a predetermined area in the bottom plate of the portable terminal, a light transmission/reception port emitting light, wherein the light transmission/reception port is located on the cradle and positioned such that emitted light is reflected from the locking member through the light transmission/reception hole and a reflection plate reflecting light to the bottom surface of the locking member, wherein the reflection plate is located on the cradle, and when a predetermined amount of light reflected from the reflection plate is received in the light transmission/reception port, the rotary motor control signal is produced in the cradle control section based upon the amount of reflected light and the locking member rotation information being created in response to the first and second connection terminals being connected together after the portable terminal is seated on the seating portion and a request is made that the locking member and the locking hole to be locked together," and claim 19 recites: " emitting light to the locking member so that the driving of the rotary motor is

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stopped depending on the reflected amount of emitted light,” and claim 22 recites: “a light transmission/reception device to emit light to the locking member and to transmit a signal to control the rotation of the at least one locking member.” The aforementioned limitations in combination with all remaining limitations of claims 1,13 & 19 are believed to render the claims and all claims dependent therefrom patentable over the art of record.

Note: See attached fig. 4 & 6 of Piridy et al., fig. 4 of Edlund & fug. 4 of Baudu et al. for elements representing claimed limitations in the instant application.

US 6151218 to Piridy et al. is considered a close reference to the instant application.

Piridy et al. disclosed a cradle (100), a locking member (314,132,134), a portable terminal (10), but is silent as to a light transmission/reception hole, a light transmissin/reception port emitting light, a reflecting plate and a rotary motor control signal produced based upon the amount of reflected light.

US 5660065 to Edlund et al. is considered a close reference to the instant application.

Edlund disclosed a rotary motor (40), a locking member (33), a polarity switching terminal controlled to stop rotation of a locking member (33), but is silent as to a light transmission/reception hole, a light transmission/reception port emitting light, a reflecting plate and a rotary motor control signal produced based upon the amount of reflected light.

US 5959287 to Myers is considered a close reference to the instant application.

Myers disclosed a locking member (56), but is silent as to a light transmission/reception hole, a light transmission/reception port emitting light, a reflecting plate and a rotary motor control signal produced based upon the amount of reflected light.

US 5997054 to Baudu et al. is considered a close reference to the instant application. Baudu et al. disclosed a locking interface (28) having a locking member (21), a rotary motor (38) and signaling device, such as a pilot light on an instrument panel may be connected to indicate the correct closing of the lock (see, col. 3, lines of Baudu et al.), but is silent as to a reflecting plate, a light transmission/reception hole, light transmission/reception port emitting light, a cradle and a portable terminal.

The Examiner has also cited the following pertinent references: US 6698418 B2, US 6575507 B2, US 5549337, US 4702095, US 4374320, US 7059159 B2, 6911897 B2 & US 6035676, as each disclosed a motor.

None of the cited references either alone or in combination is believed to render the present invention unpatentable as claimed.


3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571)272-8392. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571)272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

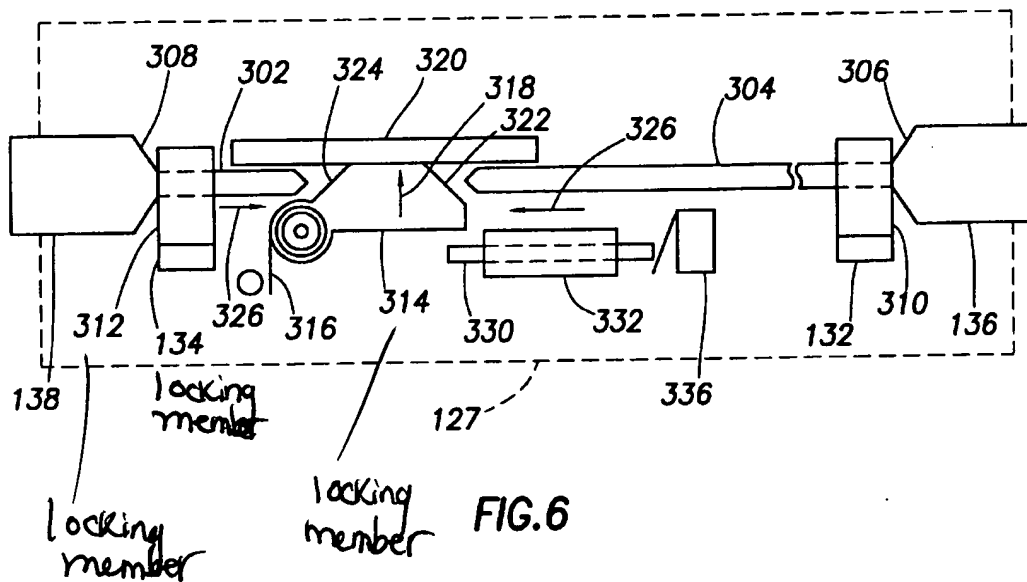
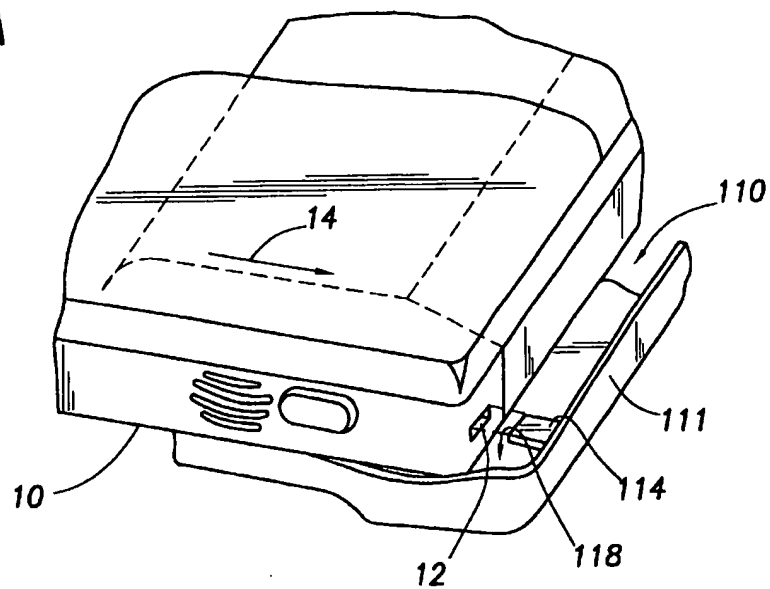
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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FIG. 1A



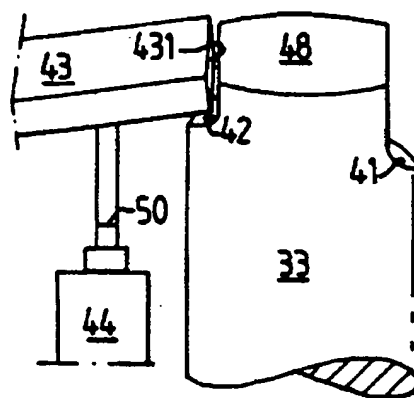
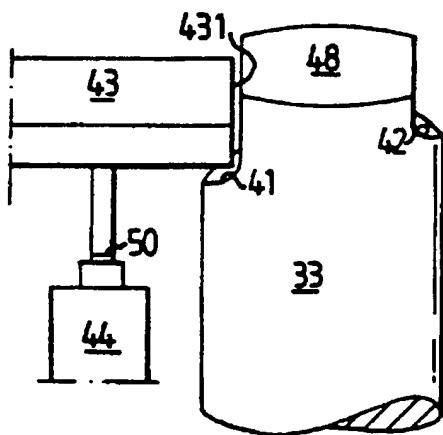
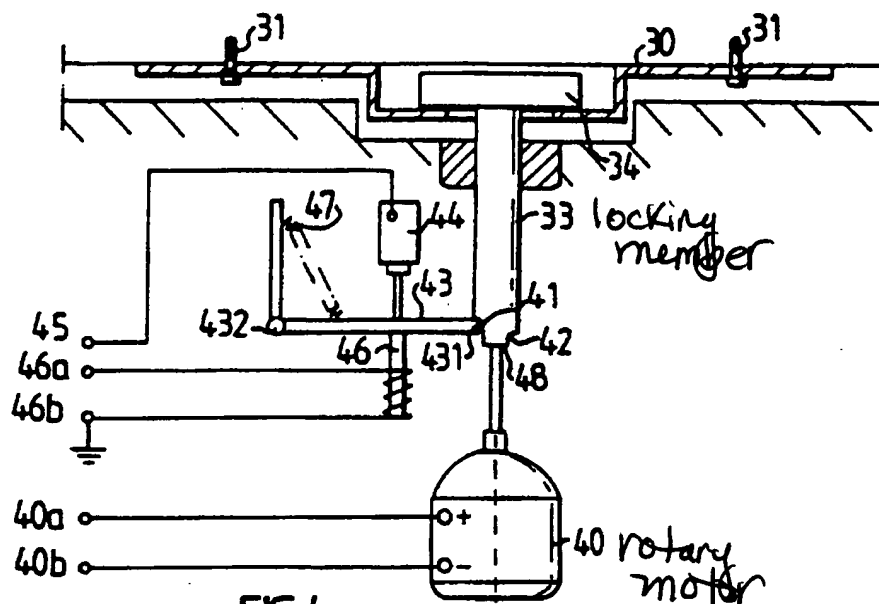
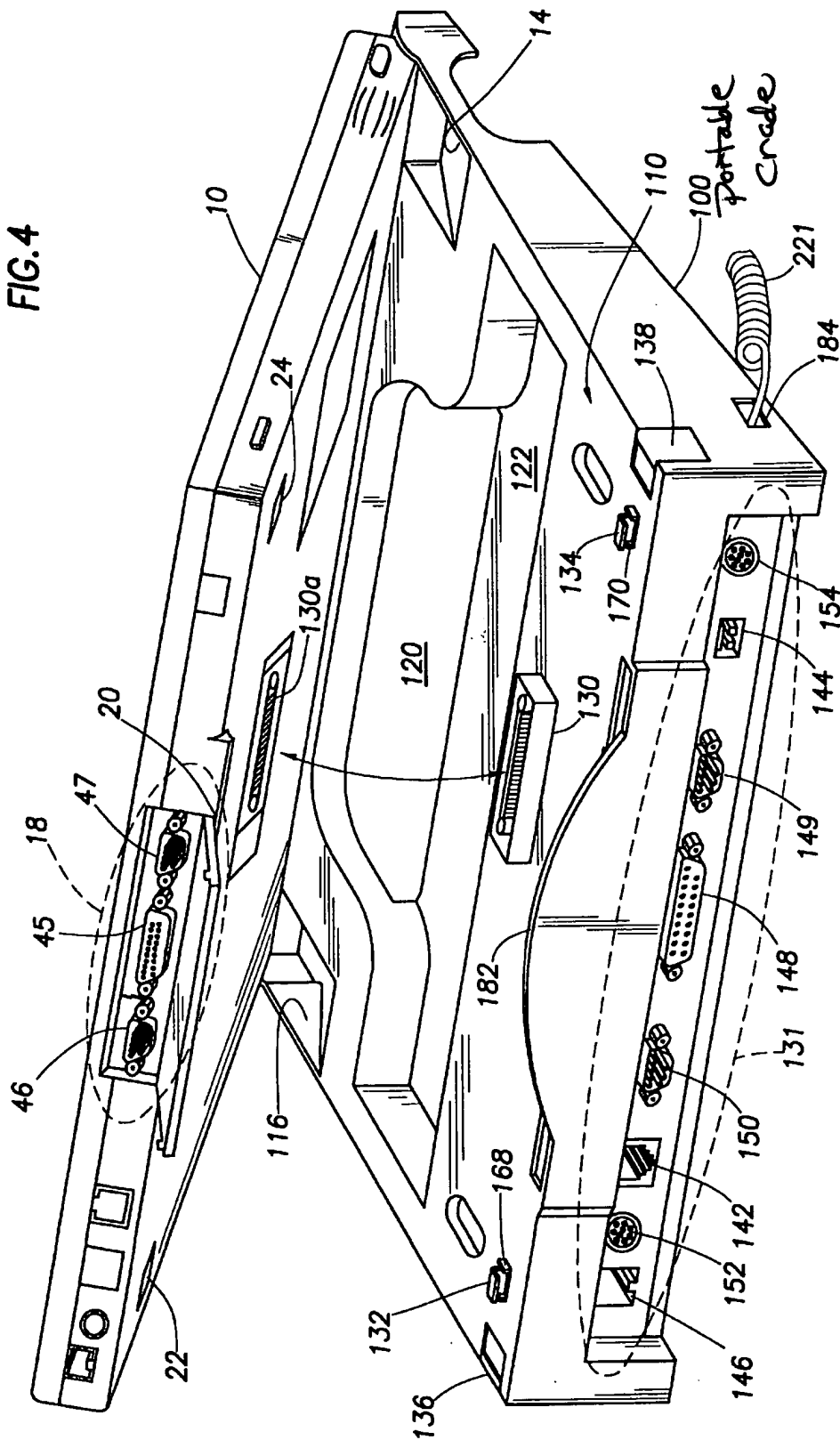


FIG. 4



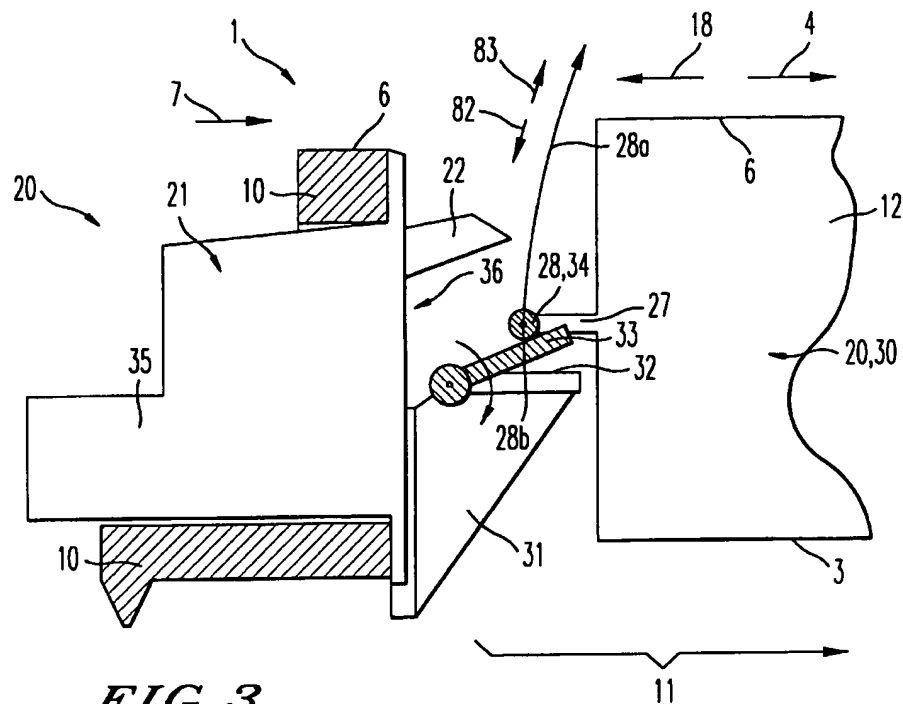


FIG. 3

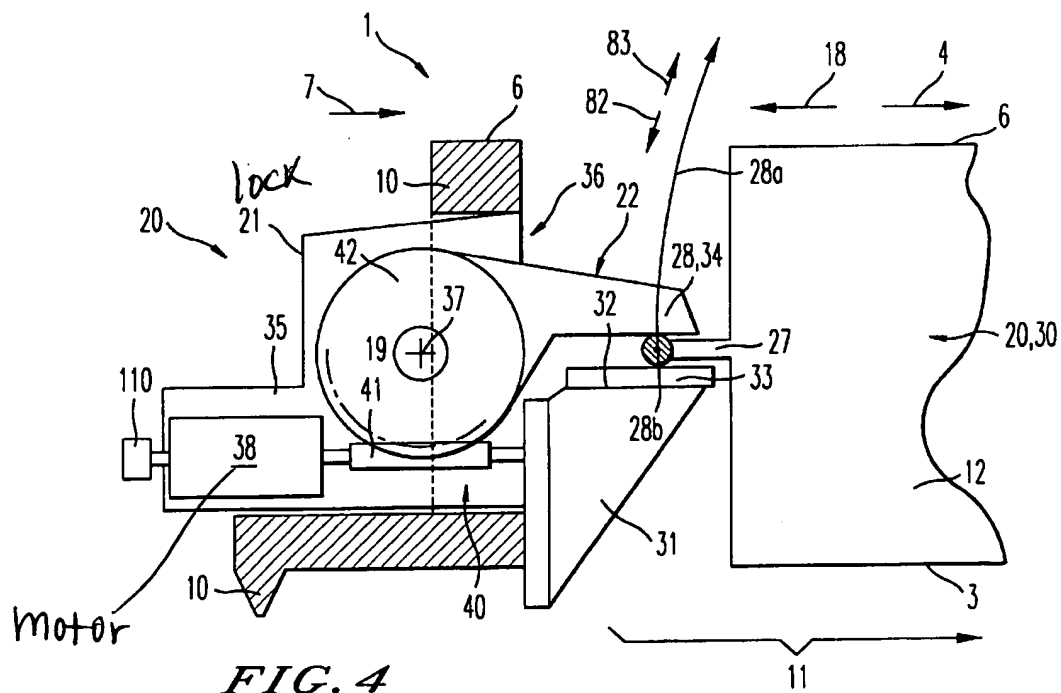


FIG. 4